

Abstract of the Disclosure

The system for changing the color temperature of the compressed video image comprises a color temperature estimation unit, which receives a video image compressed using block-based discrete cosine transformation, generates a DC video image corresponding to the compressed video image, and estimates a color temperature of the compressed video image using the DC video image; a decoder, which decodes the compressed video image to generate an original video image; and a color temperature change unit, which determines the estimated color temperature of the compressed video image or a color temperature of the decoded original video image as an application color temperature depending on whether the compressed video image is a moving video image, and changes the color temperature of the decoded original video image in accordance with the application color temperature and a color temperature preferred by a user.